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Version: 3 Revision: 14/03/2022 Previous revision: 23/03/2020 Date of printing: 14/03/2022

PRODUCT IDENTIFIER DANOCOAT PAS 600 COMP.B 1.1

UFI: CT10-H0SD-J004-QRUA

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Intended uses (main technical functions): [] Industrial [X] Professional [] Consumers

Two-pack performance coating, solvent-borne.

Relevant product types:

Paints and varnishes, professional.

Uses advised against:

#This product is not recommended for any use or sector of use (industrial, professional or consumer) other than those previously listed as 'Intended or identified uses'.

Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006: #Contains diisocyanates: As from 24 August 2023 adequate training is required before industrial or professional use.

1.3 **DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:**

ANOSA - DERIVADOS ASFÁLTICOS NORMALIZADOS, S.A

Polígono Industrial, Sector 9 - 19290 Fontanar (Guadalajara) ESPAÑA

Phone: +34 949 888 210 - Fax: +34 949 888 223

E-mail address of the person responsible for the Safety Data Sheet:

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DANOSA ESPAÑA - Polígono Industrial, Sector 9 - 19290 Fontanar (Guadalajara) España - Tel. (+34) 949 888 210 DANOSA ESPAÑA - A-44. Salida 144. - 18640 Padul (Granada) España - Tel. (+34) 958 790 727

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EMERGENCY TELEPHONE NUMBER: +34 902 422 452 (8:30-17:30 h.) (working hours) 1.4

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Classification of mixtures is carried out in accordance with the following principles: a) when data (tests) for the classification of mixtures are available, generally is carried out based on these data, b) in the absence of data (tests) for mixtures are generally used interpolation or extrapolation methods of assessing the risk, using the available data for mixtures similarly classified, and c) in the absence of tests and information which would allow to apply interpolation or extrapolation techniques, methods are used to classify risk assessment based on the data of the individual components in the mixture.

Classification in accordance with Regulation (EU) No. 1272/2008~2020/1182 (CLP):

WARNING: Skin Sens. 1:H317 | STOT SE (irrit.) 3:H335

Danger class	Classification of the mixture		Cat.	Routes of exposure	Target organs	Effects
Physicochemical: Not classified	Skin Sens. 1:H317 STOT SE (irrit.) 3:H335	c) c)	Cat.1 Cat.3	Skin Inhalation	Skin Respiratory tract	Allergy Irritation
Human health:						
Environment: Not classified						

Full text of hazard statements mentioned is indicated in section 16.

Note: When in section 3 a range of percentages is used, the health and environmental hazards describe the effects of the highest concentration of each component, but below the maximum value.

2.2 LABEL ELEMENTS:



This product is labelled with the signal word WARNING in accordance with Regulation (EU) No. 1272/2008~2020/1182 (CLP)

Hazard statements:

H335

H317

Precautionary statements:

P102

Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory P280 protection.

. Wash contaminated clothing before reuse. P303+P361+P353-P352-P312

May cause respiratory irritation. May cause an allergic skin reaction.

Keep out of reach of children.

IF ON SKIN (or hair): Take off immediately all contaminated dothing. Rinse skin with water or shower.

Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell.





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< Autoclassified

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P304+P340-P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or

doctor if you feel unwell.

P501 Dispose of contents/container to hazardous or special waste collection point.

Supplementary statements:

EUH204 Contains isocyanates. May produce an allergic reaction.

EUH208 Contains hexamethylene-1,6-diisocyanate. May produce an allergic reaction.

ubstances that contribute to classification:

HDI oligomers, isocyanurate

2.3 OTHER HAZARDS

Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:

Other physicochemical hazards: #In case the ventilation is not enough and there is an accumulation of vapors, may be form with air a mixture potentially flammable or explosive.

Other adverse human health effects: People with hypersensitive respiratory tract (by instance, asthma or chronical bronchitis) should not handle this product. The symptoms in the respiratory tract may appear even last few hours of excessive exposure. The major dangers for respiratory ways are the dust, vapours or aerosols.

Other negative environmental effects: # Does not contain substances that fulfil the PBT/vPvB criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCES

Not applicable (mixture).

3.2 MIXTURES:

#This product is a mixture.

Chemical description

Hexamethylene diisocyanate, oligomers.

INGREDIENTS:

50 < 100 % HDI oligomers, isocyanurate

<!>

(CAS: 28182-81-2) , List No. 931-274-8 CLP: Warning: Acute Tox. (inh.) 4:H332 | Skin Sens. 1:H317 | STOT SE (irrit.) Autoclassified < REACH

< 0,5 % Hexamethylene-1,6-diisocyanate

CAS: 822-06-0, ÉC: 212-485-8

CLP: Danger: Acute Tox. (inh.) 1:H330 | Acute Tox. (oral) 4:H302 | Skin Irrit.

2:H315 | Eye Irrit. 2:H319 | Resp. Sens. 1:H334 | Skin Sens. 1:H317 | STOT SE

(irrit.) 3:H335

Impurities

❖

Does not contain other components or impurities which will influence the classification of the product.

Stabilizers:

None

Reference to other sections:

For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):

List updated by ECHA on 08/07/2021.

Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:

None

Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:

None

PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:

Does not contain substances that fulfil the PBT/vPvB criteria.





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SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST-AID MEASURES: 4.1



#Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation:	#Inhalation produces irritation to mucus, coughing and breathlessness.	#Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
Skin:	#Skin contact causes redness.	#Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners. In the case of skin reddening or rashes, contact a doctor immediately.
Eyes:	# Contact with the eyes may produce slight redness.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.
<u>Ingestion:</u>	If swallowed, may cause irritation of the mouth, throat and oesophagus.	# If swallowed, seek medical advice immediately and show container or label. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: 4.2

The main symptoms and effects are indicated in sections 4.1 and 11.1

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: 4.3

Notes to physician: Treatment should be directed at the control of symptoms and the clinical condition of the patient. Antidotes and contraindications: # Specific antidote not known.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: 5.1

#Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet. Direct water jet may not be effective to extinguish the fire, since the fire may spread.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, nitrogen oxides, isocyanate vapours, traces of hydrocyanic acid. Exposure to combustion or decomposition products may be a hazard to

5.3 ADVICE FOR FIREFIGHTERS:

Special protective equipment: # Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or is not being used, combat fire from a sheltered position or from a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.

Other recommendations: # Cool with water the tanks, cistems or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

#Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. Keep people without protection in opposition to the wind direction.

6.2 **ENVIRONMENTAL PRECAUTIONS:**

Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Contain and mop up spills with absorbent materials (sawdust, earth, sand, vermiculite, diatomaceous earth, etc..). The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises: water, ethanol or iso propanol and concentrated ammonia solution (d=0.880) = 45/50/5 parts by volume. Another possible (non-flammable) decontaminant is made up of water and sodium carbonate = 95/5 parts by weight. Add the same decontaminant to any residues and allow to stand for several days in an un-sealed container until no further reaction occurs. Keep the remains in a closed container.

SAFETY DATA SHEET (REACH)

In accordance with Regulation (EC) No. 1907/2006 and Regulation (EU) No. 2015/830



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REFERENCE TO OTHER SECTIONS:

For contact information in case of emergency, see section 1.

For information on safe handling, see section 7.

For exposure controls and personal protection measures, see section 8.

For waste disposal, follow the recommendations in section 13.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: 7.1

Comply with the existing legislation on health and safety at work.

General recommendations:

#Avoid any type of leakage or escape. Keep the container tightly closed.

Recommendations for the prevention of fire and explosion risks

Although due its low flammability does not represent a serious risk of fire, all type of measures should be taken in order to avoid any possibility of ignition. 228. °C 0.9* - 9.5* % Volume 25°C

Flash point

- Lower/upper flammability or explosive limits

Recommendations for the prevention of toxicological risks:

People with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which isocyanate containing products are used. Do not eat, drink or smoke while handling. After handling, wash hands with soap and water.

For exposure controls and personal protection measures, see section 8. Recommendations for the prevention of environmental contamination:

It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Forbid the entry to unauthorized persons. Keep away from food, drink and animal foodstuffs. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. Precautions should be taken to minimise exposure to atmospheric humidity or water, as carbon dioxide may be formed which, in closed containers can result in pressurisation. Care should be taken when re-opening partly used containers. Due to the sensitivity to humidity of the isocyanates, this product should be kept in the original container, or under pressure of dried nitrogen, for example. For more information, see section 10.

According to current legislation.

Class of storage

Maximum storage period

6. months

Temperature interval

min: 15. °C, max: 25. °C (recommended). Incompatible materials:

Keep away from water, alkalis, amines, alcohols. Clean the application equipment with a compatible solvent. Never leave the equipment filled with the cleaning solvent for prolonged periods, especially when used for cleaning solvents recovered which may contain moisture or alcohols, to prevent the product from hardening in the equipment, causing seals on the hoses or guns.

Type of packaging:

According to current legislation.

<u>Limit quantity (Seveso III):</u> Directive 2012/18/EU:

Not applicable (product for professional use). .

7.3 SPECIFIC END USES:

#For the use of this product particular recommendations apart from that already indicated are not available.

SAFETY DATA SHEET (REACH)In accordance with Regulation (EC) No. 1907/2006 and Regulation (EU) No. 2015/830



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2020	Year	TLV-TWA		TLV-STEL		<u>Remarks</u>
		ppm	mg/m3	ppm	mg/m3	
Hexa methylene-1,6-diisocyanate	1988	0.005	0.034	-	-	

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

BIOLOGICAL LIMIT VALUES:

Not available

DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data a coording to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

Derived no-effect level, workers: - Systemic effects, acute and chronic: Not available (without data of registration REACH).	DNEL Inhalation mg/m3	DNEL Cutaneous mg/kg bw/d	DNEL Oral mg/kg bw/d	
Derived no-effect level, workers: - Local effects, acute and chronic: Not available (without data of registration REACH).	DNEL Inhalation mg/m3	DNEL Cutaneous mg/cm2	DNEL Eyes mg/cm2	

Derived no-effect level, general population: Not applicable (product for professional use).





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PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermittent release: Not available (without data of registration REACH).	PNEC Fresh water mg/l	PNEC Marine mg/l	PNEC Intermittent mg/I -
- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Not available (without data of registration REACH).	PNEC STP	PNEC Sediments	PNEC Sediments
	mg/l	mg/kg dw/d	mg/kg dw/d
Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans: Not available (without data of registration REACH).	PNEC Air	PNEC Soil	PNEC Oral
	mg/m3	mg/kg dw/d	mg/kg dw/d

8.2 **EXPOSURE CONTROLS:**

ENGINEERING MEASURES:





Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Protection of respiratory system: # Avoid the inhalation of vapours.

Protection of eyes and face: It is recommended to install water taps, sources or eyewash bottles with clean water close to the working

Protection of hands and skin: It is recommended to install water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

OCCUPATIONAL EXPOSURE CONTROLS: Regulation (EU) No. 2016/425:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc..), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:

#In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. If the working area is insufficiently ventilated, or when operators, whether spraying or not, are inside the spraybooth, compressed air-fed respiratory protective equipment (EN137) is required. For short periods of work, you can consider the utilisation of a combination mask with gas and particle filters, type A2-P2 (EN 14387/EN143).

Safety goggles:





Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.

Face shield:

No.

Gloves:



#Gloves resistant against chemicals (EN374). When repeated or prolonged contact with the product is expected, gloves of protection level 5 or higher should be used, with a breakthrough time of >240 min. When short contact with the product is expected, use gloves with a protection level 2 or higher should be used, with a breakthrough time > 30 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, the instructions/specifications provided by the glove supplier should be taken into account. Use the proper technique of removing gloves (without touching glove 's outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.

No.

Apron:

Boots:

Clothing:

#Advisable.

Thermal hazards:

Not applicable (the product is handled at room temperature).

ENVIRONMENTAL EXPOSURE CONTROLS:

#Avoid any spillage in the environment. Avoid any release into the atmosphere.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.

Water Management Act: This product does not contain any substance included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU.

Emissions to the atmosphere: # Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.





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Relative air

Relative water

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:
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Physical state - Colour

- Odour pH-value

· pH Change of state - Melting point

- Initial boiling point Density Vapour density

- Relative density **Stability**

Decomposition temperature

Viscosity:

- Dynamic viscosity Kinematic viscosity

Volatility: Solubility(ies)

Solubility in water

Partition coefficient: n-octanol/water

Flammability: - Flash point

- Lower/upper flammability or explosive limits

Explosive properties:

#Vapours can form explosive mixtures with air and are able to flame up or explode in presence of an ignition source.

Oxidizing properties

Not classified as oxidizing product.

*Estimated values based on the substances composing the mixture.

9.2 **OTHER INFORMATION:**

- Heat of combustion - Solids

- VOC (supply) VOC (supply) 4222* Kcal/kg 99.6 % Weight 0.4 % Weight 4.5 g/l

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the corresponding technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

Liquid.

Colo urless.

Characteristic.

Not applicable

Not applicable (non-aqueous media).

 1.13 ± 0.05 at $20/4^{\circ}$ C

250* °C

600. cps

220. °C at 760 mmHg

23°C

5.8* at 20°C 1 atm.

180. mm2/s at 40°C

5.53 (as log Pow)

0.9* - 9.5* % Volume 25°C

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY:

Corrosivity to metals: It is not corrosive to metals.

Pyrophorical properties: It is not pyrophoric.

10.2 CHEMICAL STABILITY:

Stable under recommended storage and handling conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: 10.3

Possible dangerous reaction with water, alkalis, amines, alcohols. Exothermic reaction with amines and alcohols. Reacts with water under evolution of CO2.

CONDITIONS TO AVOID: 10.4

Heat: #Keep away from sources of heat.
Light: If possible, avoid direct contact with sunlight.

Air: The product is not affected by exposure to air, but should not be left the containers open.

Humidity: Avoid humidity. Precautions should be taken to minimise exposure to atmospheric humidity or water, as carbon dioxide may be formed which, in closed containers can result in pressurisation.

Pressure: Not relevant.

The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough Shock: handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.

INC<u>OMPATIBLE MATERIALS:</u> 10.5

Keep away from water, alkalis, amines, alcohols. Clean the application equipment with a compatible solvent. Never leave the equipment filled with the cleaning solvent for prolonged periods, especially when used for cleaning solvents recovered which may contain moisture or alcohols, to prevent the product from hardening in the equipment, causing seals on the hoses or guns.

10.6 **HAZARDOUS DECOMPOSITION PRODUCTS:**

#As consequence of thermal decomposition, hazardous products may be produced, including isocyanates.





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SECTION 11: TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2020/1182 (CLP).

INFORMATION ON TOXICOLOGICAL EFFECTS: 11.1

ACUTE TOXICITY:

Dose and lethal concentrations for individual ingredients: HDI oligomers, isocyanurate Hexamethylene-1,6-diisocyanate	LD50 (OECD 401) mg/kg bw oral 2500. Rat 738. Rat	LD50 (OECD 402) mg/kg bw cutaneous > 2000. Rat 593. Rabbit	LC50 (OECD 403) mg/m3·4h inhalation > 390. Rat > 124. Rat
Estimates of acute toxicity (ATE) for individual ingredients: HDI oligomers, isocyanurate Hexamethylene-1,6-diisocyanate	ATE	ATE	ATE
	mg/kg bw oral	mg/kg bw cutaneous	mg/m3·4h inhalation
	-	-	20000.*
	738.	-	124.

(*) - Point estimates of acute toxicity corresponding to the classification category (see GHS/CLP Table 3.1.2). These values are designed to be used in the calculation of the ATE for classification of a mixture based on its components and do not represent test results. (-) - The components that are assumed to have no acute toxicity at the upper threshold of category 4 for the corresponding exposure

route are ignored.

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, a cute and/or delayed	Criteria
Inhalation: Not classified	ATE > 5000 mg/m3	-	#Not classified as a product with acute toxicity if inhaled (based on a vailable data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
Skin: Not classified	ATE > 2000 mg/kg bw	-	#Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
Eyes: Not classified	Not available	-	#Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
Ingestion: Not classified	ATE > 2000 mg/kg bw	-	#Not classified as a product with acute toxicity if swallo wed (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.

GHS/CLP 3.1.3.6: Classification of mixtures based on ingredients of the mixture (additivity formula).

CORROSION / IRRITATION / SENSITISATION:

CORROSION / IRRITATION / SENSITISATION .							
Danger class	Target organs	Cat.	Main effects, a cute and/or delayed	Criteria			
Respiratory corrosion/irritation:	Respiratory tract	Cat.3	IRRITANT: May cause respiratory irritation.	GHS/CLP 1.2.6. 3.8.3.4.			
<u>Skin corrosion/irritation:</u> Not classified	-	-	#Not classified as a product corrosive or irritant in contact with skin (based on available data, the classification criteria are not met).	GHS/CLP 3.2.3.3.			
<u>Serious eye damaqe/irritation:</u> Not classified	-	-	#Not classified as a product corrosive or irritant in contact with eyes (based on available data, the classification criteria are not met).	GHS/CLP 3.3.3.3.			
Respiratory sensitisation: Not classified	-	-	#Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 3.4.3.3.			
Skin sensitisation:	Skin	Cat.1	SENSITISING: May cause an allergic skin reaction.	GHS/CLP 3.4.3.3.			

GHS/CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components. GHS/CLP 3.3.3.3: Classification of the mixture when data are available for all components or only for some components. GHS/CLP 3.4.3.3: Classification of the mixture when data are available for all components or only for some components. GHS/CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.





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ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Aspiration hazard: Not classified	-	-	#Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).	GHS/CLP 3.10.3.3.

GHS/CLP 3.10.3.3: Classification of the mixture when data are available for all components or only for some components.

| SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Effects	SE/RE	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Respiratory:	SE	Respiratory tract	Cat.3	IRRITANT: May cause respiratory irritation.	GHS/CLP 3.8.3.4.

GHS/CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.

CMR EFFECTS:

Carcinogenic effects: It is not considered as a carcinogenic product.

Genotoxicity: It is not considered as a mutagenic product.

Toxicity for reproduction: Does not harm fertility. Does not harm the unborn child.

Effects via lactation: Not classified as a hazardous product for children breast-fed.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Routes of exposure: # Not available.
Short-term exposure:

Long-term or repeated exposure: # Not available.

INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:

<u>Dermal absorption:</u> Not available. <u>Basic toxico kinetics:</u> Not available.

ADDITIONAL INFORMATION

Based on the properties of the isocyanate content of this product and existing technical data of similar preparations, it can be concluded that respiratory exposure may cause acute irritation and/or sensitization of the respiratory system, resulting in asthmatic symptoms, whee zing and a tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to airborne concentrations of isocyanates well below the occupational exposure limit. Repeated exposure may lead to permanent respiratory disability. In case of prolonged contact, the skin can dry up and irritation could appear.

SECTION 12: ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2020/1182 (CLP).

TOXICITY:

Acute toxicity in aquatic environment	LC50 (OECD 203)	EC50 (OECD 202)	EC50 (OECD 201)
for individual ingredients :	mg/I·96hours	mg/l·48hours	mg/l·72hours
HDI oligomers, isocyanurate	> 100. Fishes	> 100. Daphnia	> 1000. Algae
Hexa methylene-1,6-diisocyanate			> 77. Algae

No observed effect concentration

Not available

owest observed effect concentration

Not available

ASSESSMENT OF ACHIATIC TOXICITY:

ASSESSMENT OF AQUATIC TOXICITY.				
Aquatic toxicity	Cat.	Main hazards to the aquatic environment	Criteria	
Acute aquatic toxicity: Not classified	-	#Not classified as a hazardous product with acute toxicity to a quatic life (based on available data, the classification criteria are not met).		
Chronic aquatic toxicity: Not classified	-	*Not classified as a dangerous product with chronic toxicity to a quatic life with long lasting effects (based on available data, the classification criteria are not met).	GHS/CLP 4.1.3.5.5.4.	

CLP 4.1.3.5.5.3: Classification of a mixture for acute hazards, based on summation of classified components.

CLP 4.1.3.5.5.4: Classification of a mixture for chronic (long term) hazards, based on summation of classified components.

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Buildin	nosa ng together	DANOCOAT PAS 600 COMP.B			<u>(1)</u>		
12.2	PERSISTENCE AND DEGRADABILITY: Not available.						
	Aerobic bio degradation for individual ingredients : HDI oligomers, isocyanurate Hexa methylene-1,6-d iisocyanate		<u>DQO</u> mgO2/g	%DBO/DQO 5 days 14 days 28 days 1. 20. 42.	Biodegradability Not easy Not easy		
	Note: Biodegradability data correspond to an average of data from various bibliographic sources.						
12.3	BIOACCUMULATIVE POTENTIAL: # Not available.						
	Bioaccumulation for individual in HDI oligomers Hexamethylen	ngredients :	log Pow 5.54 3.20	BCF L/kg 3.2 (calculated) 60. (calculated)	Potential Not bio accumulative. Low		
12.4	MOBILITY IN SOIL: Not available.						
	Mobility for individual i HDI oligomers Hexa methylen		log Poc 5.15 2.78	Constant of Henry Pa·m3/mol 20°C 0.00000 (calculated) 4.0 (calculated)	Potential Not bioaccumulative. Low		
12.5	RESULTS OF PBT AND VPVB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006: # Does not contain substances that fulfil the PBT/vPvB criteria.						
12.6	6 OTHER ADVERSE EFFECTS: Ozone depletion potential: # Not available.						

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS: Directive 2008/98/EC~Regulation (EU) no. 1357/2014: 13.1

Earth global warming potential: In case of fire or incineration liberates CO2. Endocrine disrupting potential: # Not available.

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose at an authorised waste collection point. Waste should be handled and disposed in accordance with current local and national regulations. For exposure controls and personal protection measures, see

Disposal of empty containers: Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU:

Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of empting of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:

Photochemical ozone creation potential: # Not available.

Controlled incineration in special facilities for chemical waste, in accordance with local regulations.





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SECTION 14: TRANSPORT INFORMATION

14.1 **UN NUMBER:** Not applicable

14.2 UN PROPER SHIPPING NAME: Not applicable

TRANSPORT HAZARD CLASS(ES): 14.3

> Transport by road (ADR 2021) and Transport by rail (RID 2021):

Not regulated

Transport by sea (IMDG 39-18):

Not regulated

Transport by air (ICAO/IATA 2021):

Not regulated

<u>Transport by inland waterways (ADN):</u>

Not regulated

PACKING GROUP: 14.4

Not regulated

ENVIRONMENTAL HAZARDS: 14.5

Not applicable (not classified as hazardous for the environment).

14.6 SPECIAL PRECAUTIONS FOR USER:

Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure. Ensure adequate ventilation.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE: Not applicable.

SECTION 15: REGULATORY INFORMATION

EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC: 15.1

The regulations applicable to this product generally are listed throughout this Safety Data Sheet.

Restrictions on manufacture, placing on market and use: See section 1.2

<u>Tactile warning of danger:</u> Not applicable (the classification criteria are not met).

Child safety protection: Not applicable (the classification criteria are not met).

VOC information on the label:

#Contains VOC max. 4.7 g/l - The limit value 2004/42/CE-IIA cat. j) for the product ready for use is VOC max. 500. g/l (2010).

OTHER REGULATIONS:

Control of the risks inherent in major accidents (Seveso III): See section 7.2

#The receiver should verify the possible existence of local regulations applicable to the chemical.

15.2 **CHEMICAL SAFETY ASSESSMENT:**

A chemical safety assessment has not been carried out for this mixture.





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SECTION 16: OTHER INFORMATION

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:

Hazard statements according the Regulation (EU) No. 1272/2008~2020/1182 (CLP), Annex III:

H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H330 Fatal if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.

Indications for preparations containing isocyanates:

Ready-to-use preparations containing isocyanates may have an irritant effect on mucous membranes -especially on breathing organsand cause hypersensitivity reactions. Inhalation of vapour or spray mist may cause sensitisation. When handling preparations containing isocyanates all precautions required for solvent-containing preparations must be followed. Vapour and spray mist in particular should not be inhaled. Allergics and asthmatics, as well as people prone to respiratory ailments should not work with isocyanate-containing preparations.

EVALUATION OF THE INFORMATION ON THE DANGER OF MIXTURES: See sections 9.1, 11.1 and 12.1.

ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of Safety Data Sheets and labelling of products as well.

- MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:
 European Chemicals Agency: ECHA, http://echa.europa.eu/
- · Access to European Union Law, http://eur-lex.europa.eu/
- Threshold Limit Values, (AGCIH, 2018).
 Riesgos y Patologia por Isocianatos, G.Alomar (INSHT, DT.54.89, 1989).
- · ISOPA directives for the safety in the load/unload, transport and storage of TDI and MDI. ISOPA publication number: PSC-0014-GUIDL-EN.

ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- · GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- · CLP: Europe an regularion on Classificatin, Labelling amd Packaging of substances and chemical mixtures.
- · EINECS: European Inventory of Existing Commercial Chemical Substances
- · ELINCS: European List of Notified Chemical Substances.
- · CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials. SVHC: Substances of Very High Concern.
- · PBT: Persistent, bioaccumulable and toxic substances.
- · vPvB: Very persistent and very bioaccumulable substances.
- · VOC: Volatile Organic Compounds.
- DNEL: Derived No-Effect Level (REACH).
 PNEC: Predicted No-Effect Concentration (REACH).
- · LD50: Lethal dose, 50 percent.
- · LC50: Lethal concentration, 50 percent.
- · UN: United Nations Organisation.
- · ADR: European agreement concerning the international carriage of dangeous goods by road.
- · RID: Regulations concerning the international transport of dangeous goods by rail.
- · IMDG: International Maritime code for Dangerous Goods.
- · IATA: International Air Transport Association.
- · ICAO: International Civil Aviation Organization.

SAFETY DATA SHEET REGULATIONS:

Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

HISTORIC: Revision Version: 2 23/03/2020 14/03/2022 Version: 3

Changes since previous Safety Data Sheet:

#Legislative, contextual, numerical, methodological and normative changes since the previous version of the present Safety Data Sheet are identified by a red-italic hash (#).

The information of this Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.